

**Record 20: JP62020543A****(ENG) POLYOLEFIN COMPOSITION****Assignee:** MITSUBISHI PETROCHEMICAL CO

[ no drawing available]

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**Abstract:** (ENG) <sec>PURPOSE: To obtain the titled composition improved in balance between moldability, impact strength, and environmental stress cracking resistance, by blending each specific ultrahigh-molecular weight ethylene polymer and ethylene- $\alpha$ -olefin copolymer.  
CONSTITUTION: The objective composition can be obtained by blending (A) 90W10wt% of an ethylene- $\alpha$ -olefin copolymer with a MFR 0.1W5g/10min, density 0.9W0.94 (pref. 0.93W0.94g/cm<sup>3</sup>), and Q-value (ratio: weight-average molecular weight/number-average molecular weight) 2W8, prepared by copolymerization, using Ziegler- or Phillips-type catalyst by either gaseous phase, solution, or slurry process, between ethylene and  $\alpha$ -olefin (pref. of 6W8C) and (B) 10W90wt% of an ethylene polymer with a MFR at 10kg load 0.1W1.5g/10min, density 0.935W0.965g/cm<sup>3</sup>, Q-value 4W16, and die swell ratio  $\geq$ 1.35. This composition has the following characteristics: MFR ... 0.03W0.5g/10min, density ...0.935W0.955g/cm<sup>3</sup>.</sec>

**Priority Data:** JP 15805185 19850719 A X;